

2SK765, 2SK765A

查询"2SK765"供应商
Silicon N-channel Power F-MOS FET

■ Features

- Low ON resistance $R_{DS(on)}$: $R_{DS(on)} = 0.5\Omega$ (typ.)
- High switching rate : $t_r = 90\text{ns}$ (typ.)
- No secondary breakdown
- High breakdown voltage, large power

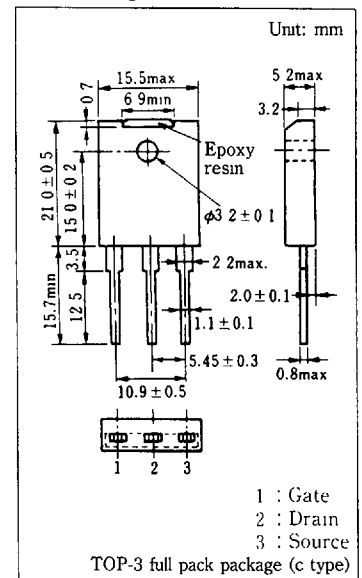
■ Application

- No contact relay
- Solenoid drive
- Motor drive
- Control equipment
- Switching power source

■ Absolute Maximum Ratings ($T_c = 25^\circ\text{C}$)

Item	Symbol	Value	Unit	
Drain-source voltage	2SK765	400	V	
	2SK765A	450		
Gate-source voltage	V_{GS}	± 20	V	
Drain current	DC	I_D	10	A
	Peak-to-peak value	I_{DP}	20	
Power dissipation	$T_c = 25^\circ\text{C}$	P_D	100	W
	$T_a = 25^\circ\text{C}$		3.0	
Channel temperature	T_{ch}	150	$^\circ\text{C}$	
Storage temperature	T_{stg}	$-55 \sim +150$	$^\circ\text{C}$	

■ Package Dimensions



■ Electrical Characteristics ($T_c = 25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Drain current	I_{DSS}	$V_{DS} = 320\text{V}, V_{GS} = 0$			0.1	mA
Gate-source current	I_{GSS}	$V_{GS} = \pm 20\text{V}, V_{DS} = 0$			± 1	μA
Drain-source voltage	2SK765	$I_D = 1\text{mA}, V_{GS} = 0$	400			V
	2SK765A		450			
Gate threshold voltage	V_{th}	$V_{DS} = 25\text{V}, I_D = 1\text{mA}$	1		5	V
Drain-source ON resistance	$R_{DS(on)}$	$V_{GS} = 10\text{V}, I_D = 5\text{A}$		0.5	0.75	Ω
Forward transfer admittance	$ Y_{fs} $	$V_{DS} = 25\text{V}, I_D = 5\text{A}$	3.5	5.5		S
Input capacitance	C_{iss}	$V_{DS} = 20\text{V}, V_{GS} = 0, f = 1\text{MHz}$		1100		pF
Output capacitance	C_{oss}				215	pF
Reverse transfer capacitance	C_{rss}				100	pF
Turn-on time	t_{on}		$V_{GS} = 10\text{V}, I_D = 5\text{A}$		70	
Fall time	t_f	$V_{DD} = 150\text{V}, R_L = 30\Omega$		90		ns
Delay time	$t_d(\text{off})$				230	

